

INCH-POUND

MIL-DTL-15743/17A

26 November 2002

SUPERSEDING

MIL-S-15743/17

27 August 1984

DETAIL SPECIFICATION SHEET

SWITCH, ROTARY, ENCLOSED, SUBMERSIBLE (15 FEET), CONTACT MAKER,
SIX POLE, TWO-POSITION, SPRING-RETURN, 125 VOLTS ALTERNATING CURRENT,
10 AMPERE, SYMBOL 2638.1

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification and MIL-DTL-15743.

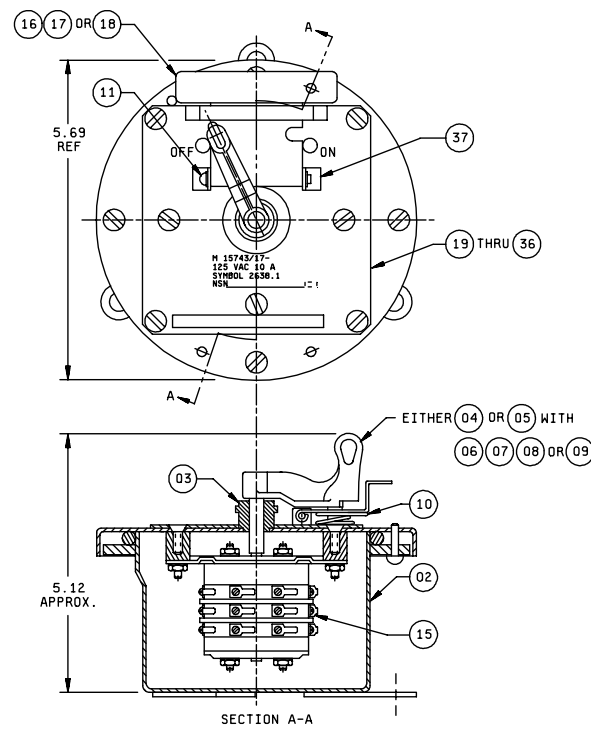


FIGURE 1. Switch, enclosed. 01
(001 shown)

NOTES:

1. All dimensions in inches.
2. Unless otherwise specified herein, tolerances shall be as follows:
 - Two place decimals - plus or minus 0.02.
 - Three place decimals - plus or minus 0.005.
 - Angular dimensions - plus or minus 30 minutes.

AMSC N/A

1 of 12

FSC 5930

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

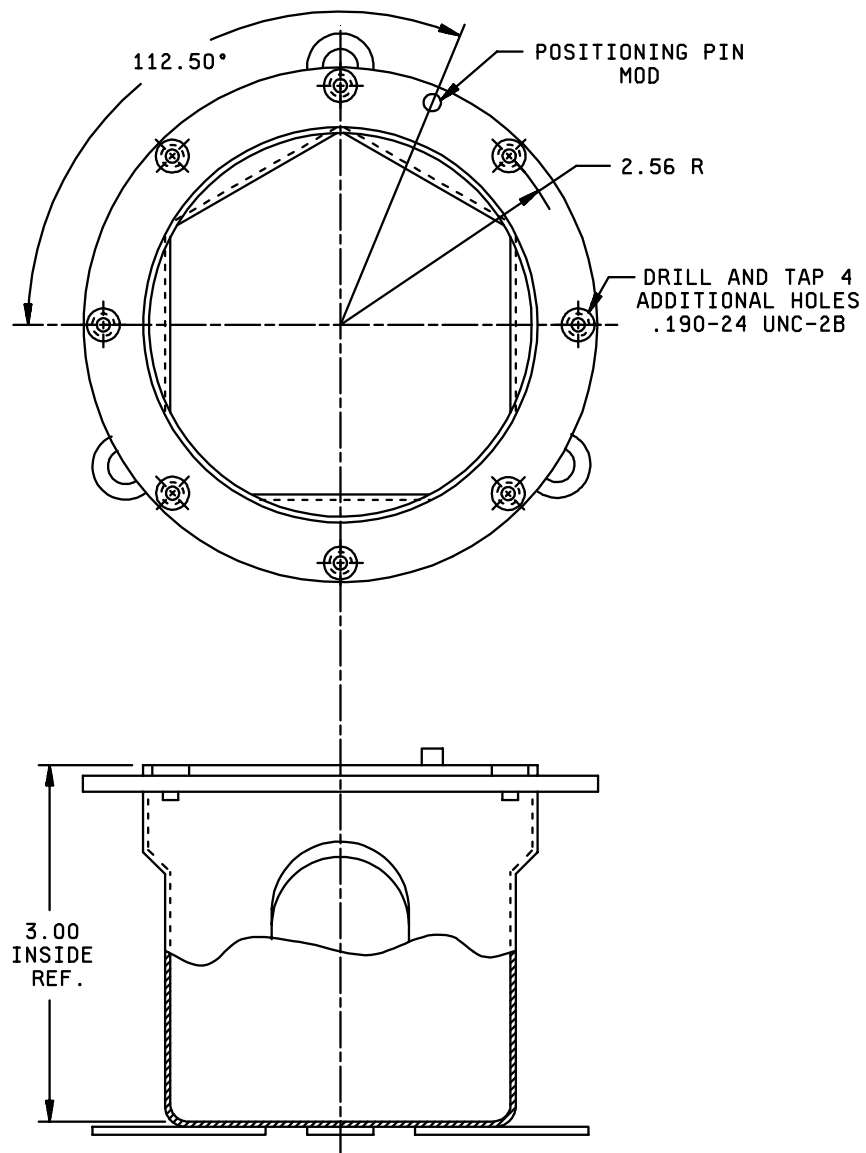


FIGURE 2. Box assembly, (modified).

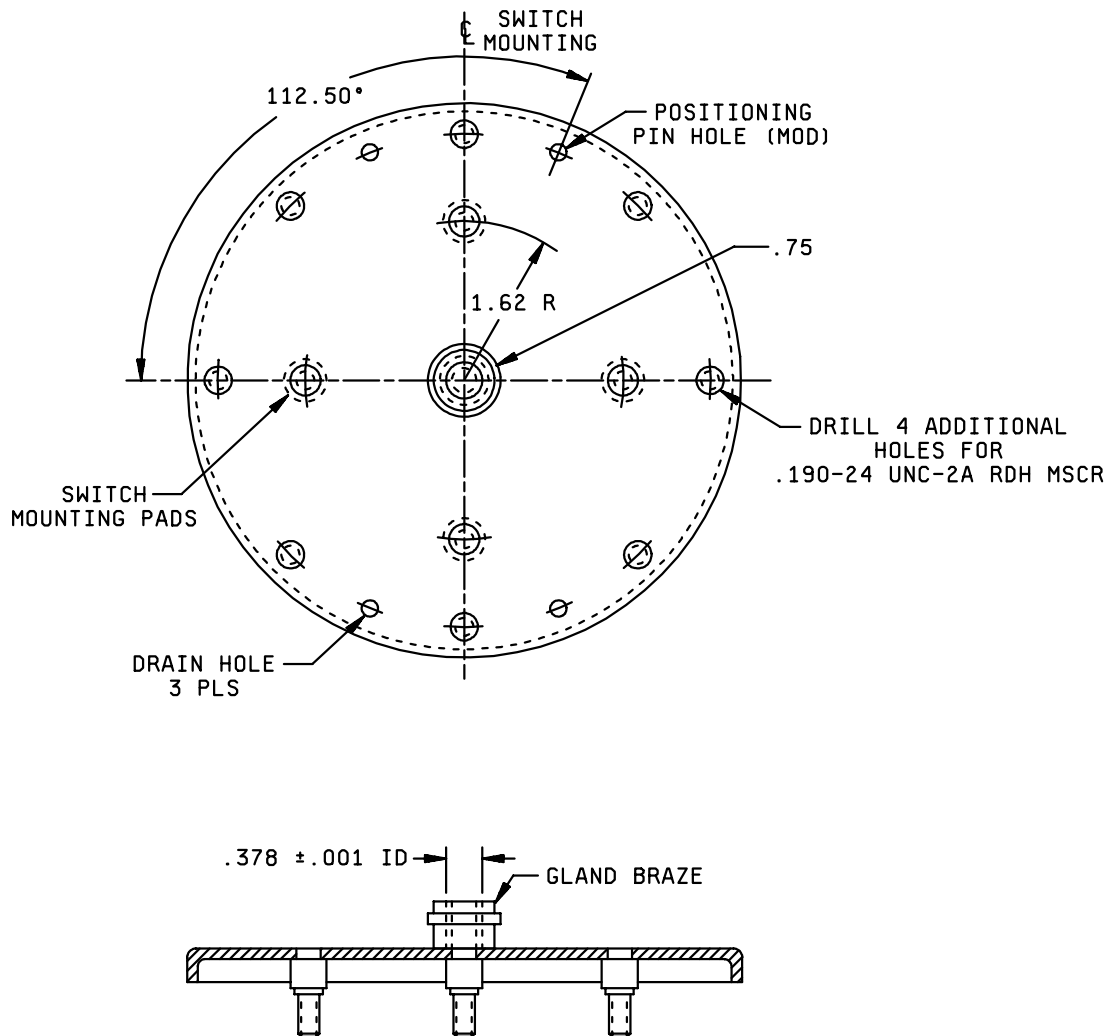


FIGURE 3. Cover assembly (modified).

Technical drawing of a mechanical part showing two views: a front view on the left and a side view on the right.

Front View (Left):

- Top width: $.38$
- Central hole diameter: $.125$ DRILL
- Bottom feature: A square with an 'X' inside, indicating a cross-section or a specific material property.

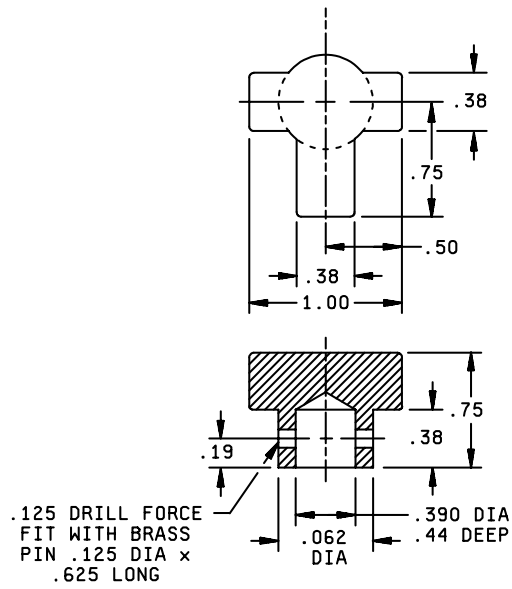
Side View (Right):

- Top width: $.75$
- Side view hole diameter: $.12$
- Side view hole depth: $.19$
- Bottom width: $.38$
- Bottom feature: A curved profile with a dashed line indicating a hidden feature.

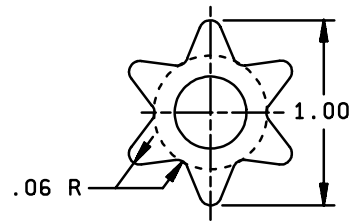
Notes:

- FORCE FIT WITH BRASS PIN $.12$ DIA \times $.062$ LENGTH

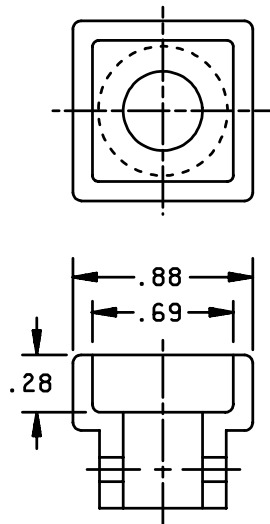
4



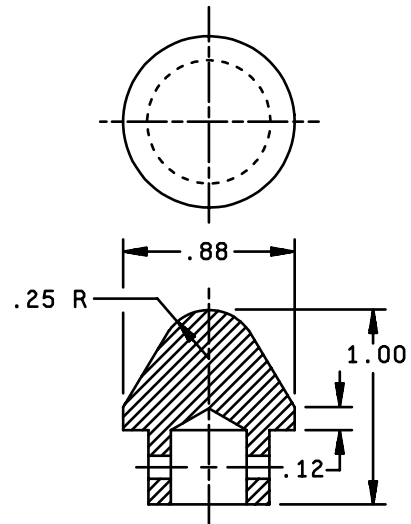
A. T Knob. ①⑥



B. Star Knob. ①⑦
(same as 06, except as shown)



C. Square Knob. ①⑧
(same as 06, except as shown)



D. Crown Knob. ①⑨
(same as 06, except as shown)

FIGURE 6. Knobs. 06, 07, 08, 09

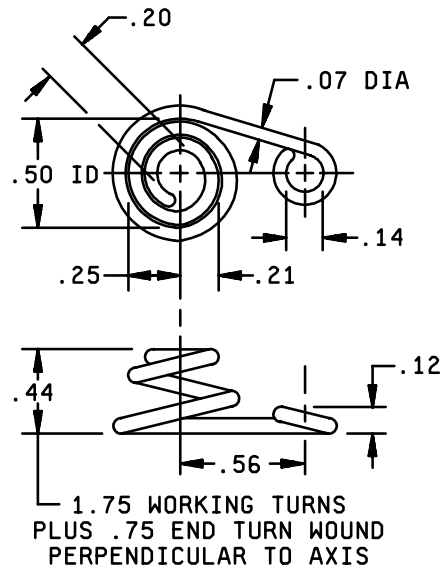


FIGURE 7. Spring. (10)

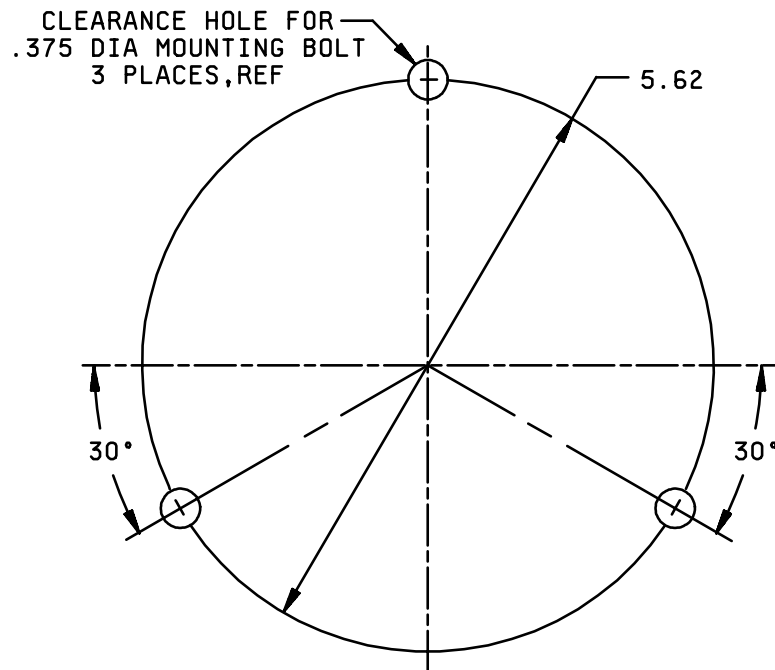
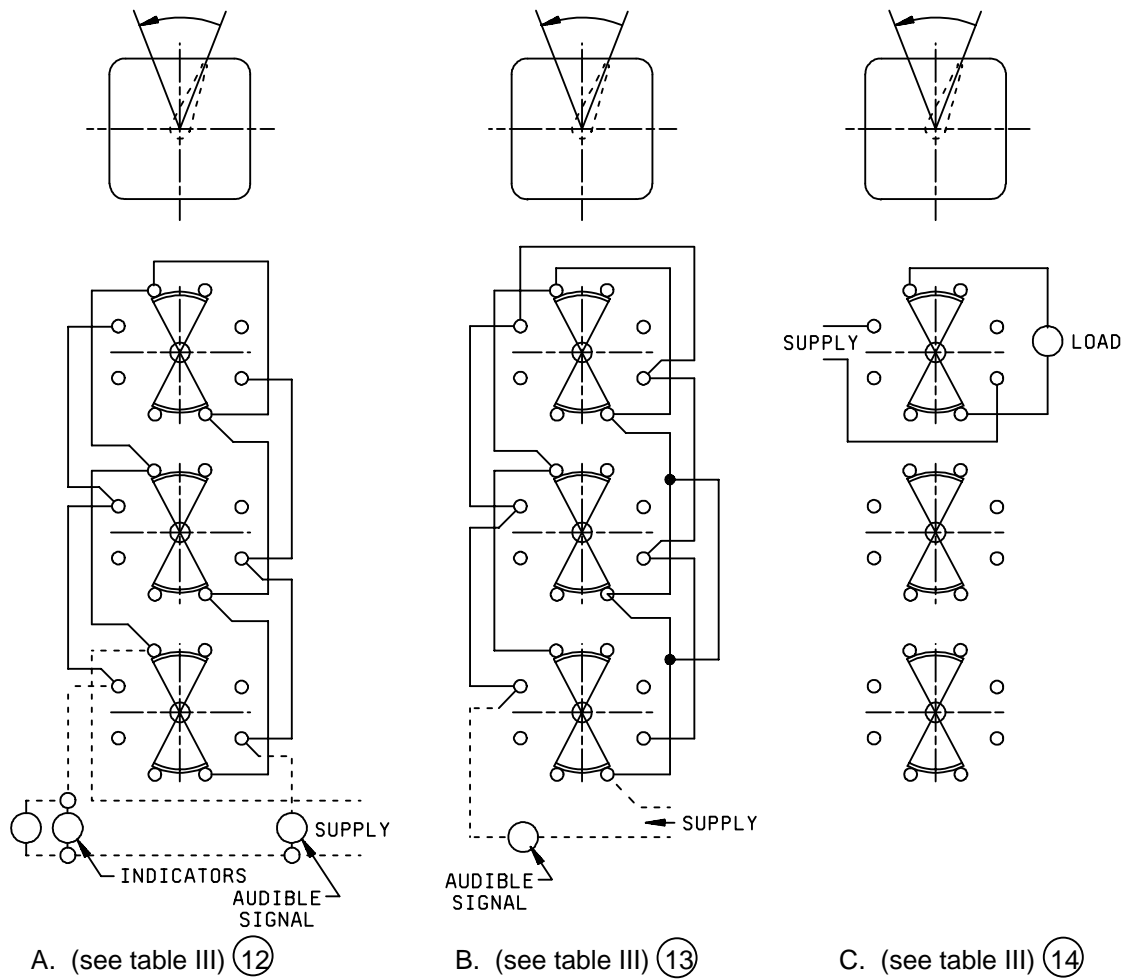
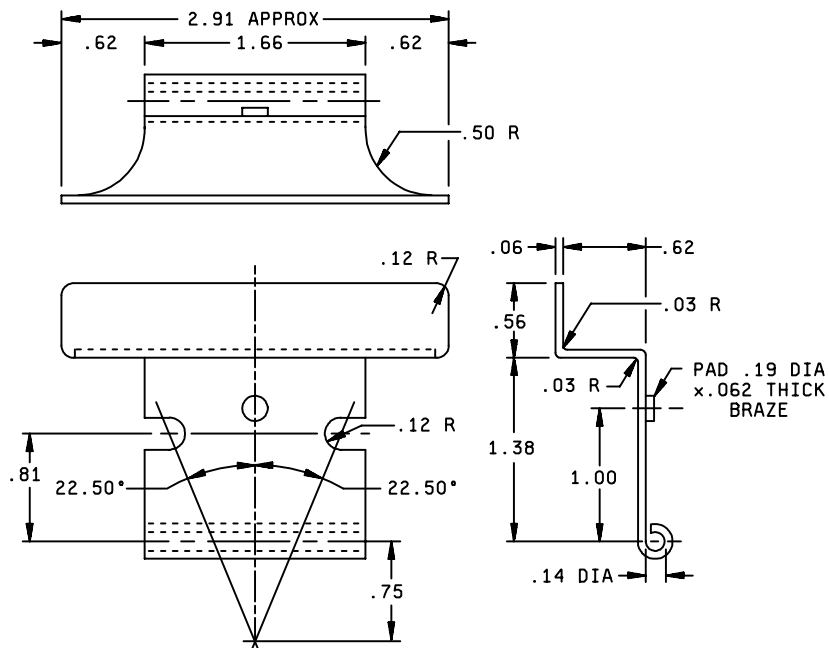


FIGURE 8. Mounting dimensions, ref.

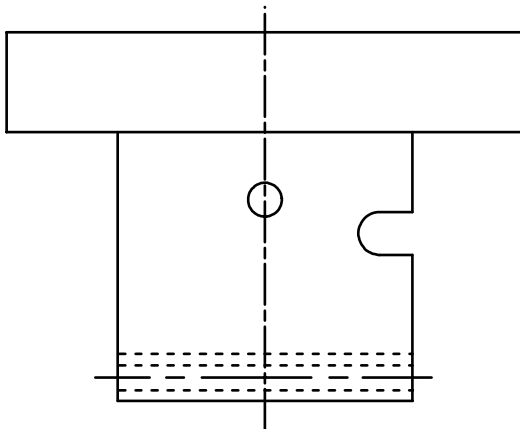


NOTE: Wiring diagrams are rear view of switch, handle moves "RIGHT ON" (as viewed from front of switch).

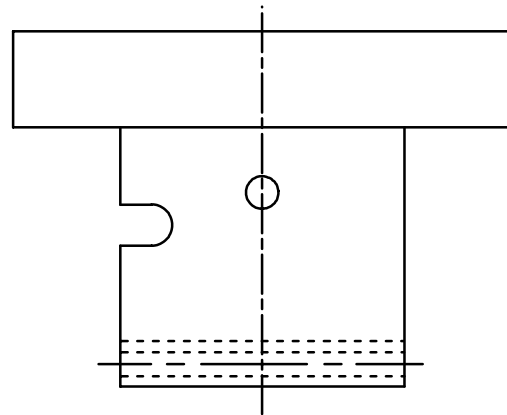
FIGURE 9. Wiring diagram. ⑫, ⑬, ⑭



A. Left or right position. (16)



B. Right position (only) (17)
(same as item 16, except as shown)



C. Left position (only) (18)
(same as item 16, except as shown)

FIGURE 10. Locking plates. (16)(17)(18)

MIL-DTL-15743/17A

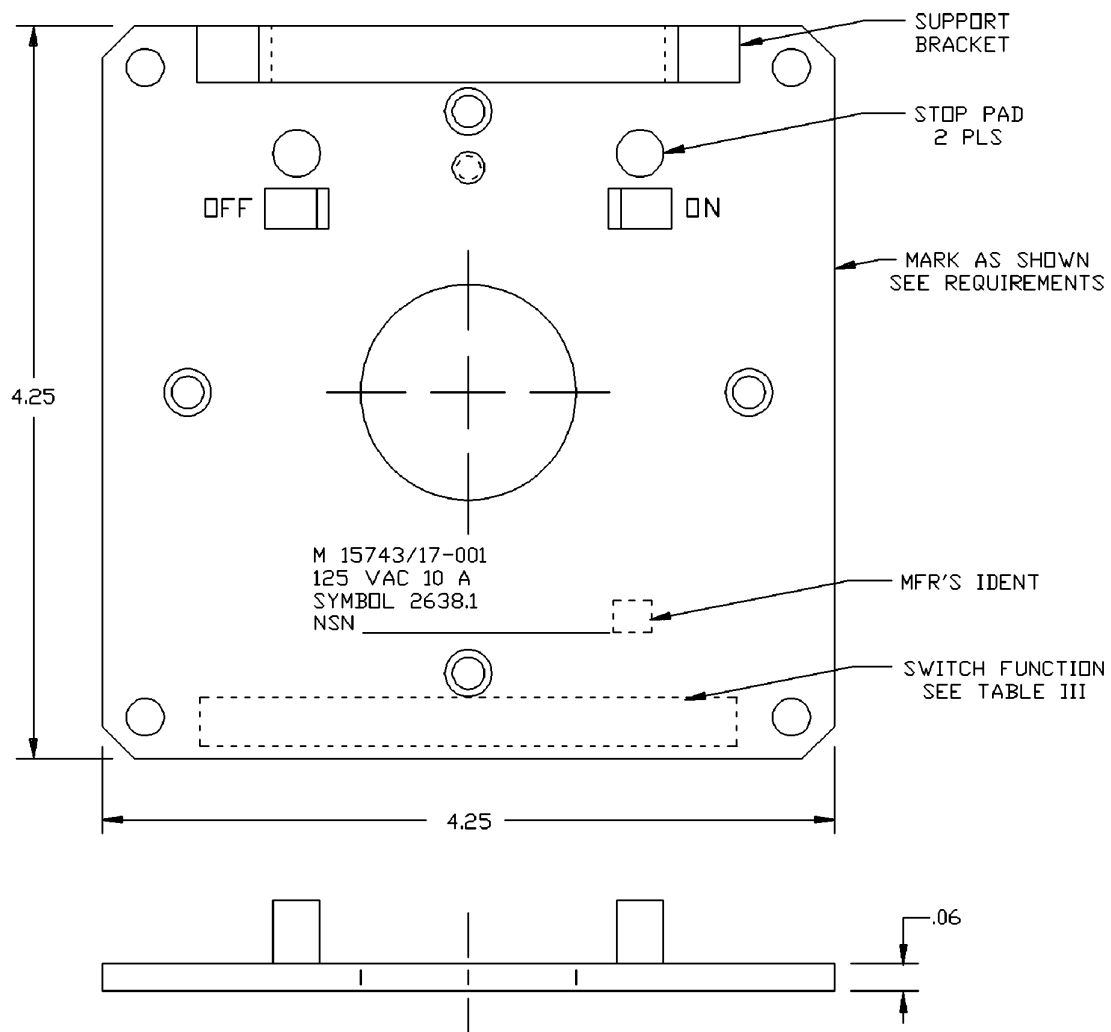


FIGURE 11. Identification plate. ①9 through ③6

MIL-DTL-15743/17A

REQUIREMENTS

SYMBOL NUMBER: See table I.

DESIGN:

Electrical rating: 125 V ac, 0-10 ampere, 60 Hz.

Dimensions and configuration: See figures 1 through 10.

Wiring diagram: See figure 9.

Mounting dimensions: See figure 8.

Degree of enclosure: Submersible (15 feet).

Weight: 4 pounds maximum.

Designation and marking: See figure 10.

Unless otherwise specified in the ordering data, switch action and identification marking shall be as shown on figure 11. Switch function marking shall be as shown in table III.

Parts: The parts shown in table II and as specified in MIL-DTL-15743 shall be used in the construction of the switch specified herein. Parts selection for applicable switch function is given in table III.

GENERAL INFORMATION:

Military part number and general information are as shown in table I.

TABLE I. Military part number and general information.

Military part no.	Symbol no.	Supersedes <u>1/</u>			
		Type	Sheets	Revision	Date
M15743/17-001	2638.1	S2JRM3A-2	1-4	H	2/10/80

1/ NAVSEA Drawing 803-74055, in part.

ORDERING DATA:

Acquisition documents should specify the following:

- (a) Switch action marking, if other than shown, (see requirements).
- (b) Switch function marking required (identification plate item no.), (see table III).
- (c) Wiring diagram for identification plate item numbers 19 through 36 (see table III).

MIL-DTL-15743/17A

TABLE II. Parts list.

Item no. <u>1</u> /	Description	Quantity M15743/17-001	Material/ specification	Remarks
01	Switch, enclosed (sym 2638.1)	-		See figure 1
02	Enclosure	1	MIL-E-24142/5-002	M24142/5-002 Mod <u>2</u> /
03	O Ring seal	1	SAE-AS28775-012	----
04	Handle	<u>4</u> / 1	Brass, coml	See figure 4
05	Handle body for knobs	<u>4</u> / 1	Brass, coml	See figure 5
06	T knob	<u>4</u> / 1	Brass, coml	See figure 6a
07	Star knob	<u>4</u> / 1	Brass, coml	See figure 6b
08	Square knob	<u>4</u> / 1	Brass, coml	See figure 6c
09	Crown knob	<u>4</u> / 1	Brass, coml	See figure 6d
10	Spring	1	Phosphor bronze, coml	See figure 7
11	Hinge pin	1	Brass, coml	Size as reqd.
12	Wiring diagram	<u>4</u> / 1	MIL-E-2036	See figure 9a
13	Wiring diagram	<u>4</u> / 1	MIL-E-2036	See figure 9b
14	Wiring diagram	<u>4</u> / 1	MIL-E-2036	See figure 9c
15	Switch (type JRM 300)	1	MIL-S-21604/7	---
16	Locking plate (left and right position) <u>3</u> /	<u>4</u> / 1	Brass, coml	See figure 10a
17	Locking plate (right position) <u>3</u> /	<u>4</u> / 1	Brass, coml	See figure 10b
18	Locking plate (left position) <u>3</u> /	<u>4</u> / 1	Brass, coml	See figure 10c
19 thru 36	Identification plate	<u>4</u> / 1	Brass, ASTM B 36 and B121	See figure 11
37	Hinge angle	2	Brass, coml	See figure 1
38	Stud	1	CRES, or equivalent	

1/ Numbers in circles shown on the figures are the same as the item numbers shown in this table.

2/ Modified enclosure to change location of positioning pin and hole (see figures 2 and 3).

3/ Supporting hardware for locking plates shall be brass (commercial) with phosphor bronze (commercial) lockwashers.

4/ See table III for switch-function and parts selection.

MIL-DTL-15743/17A

TABLE III. Switch function and parts selection data.

Switch function <u>1/</u> (see figure 11)	Parts selection					
	Color cover & ident plate <u>2/</u>	Ident plate item no	Lkg plate item no	Hdle item no	Knob item no	Wrg diag item no.
Blank	-	19	18	04	-	None
Fire room emergency	-	20	17	04	-	12
General alarm	Red #21105 (Surf SH) Yel #23655 (subs)	21	18	04	-	13
Intraturret alarm	-	22	17	04	-	13
Steering emergency	-	23	18	04	-	13
Flight crash	-	24	18	04	-	13
Flight deck warning	-	25	17	04	-	13
Chemical attack	GRN #24260 (Surf SH)	26	16	04	-	13
Heavy machine gun cease firing circuit 4U	-	27	18	04	-	<u>3/</u>
Light machine gun cease firing circuit 5U	-	28	18	04	-	<u>3/</u>
Collision alarm	Yel #23655 (Surf SH) Red #21105 (Sub)	29	18	05	07	13
Diving alarm	Grn #24260 (Sub)	30	18	05	08	13
Sonar alarm	Yel #23655	31	18	04	-	13
Rocket and torpedo warning	-	32	18	04	-	13
Power plant alarm	Wht #27875 (Surf SH) Pink #21668 (Sub)	33	18	05	06	13
Missile jettison alarm	Blu #25102	34	18	05	09	13
Missile emergency alarm	Orn #27246	35	18	05	09	13
Danger I.F.F. destruct	-	36	18	04	-	14

1/ Switch function shall be as specified in the ordering data. When not specified, or when enclosed switches are being ordered for stocking in the supply system, the switch function shall be blank (item 19).

2/ Where colors are specified, switch enclosure covers and identification plates shall be painted the color standard number of FED-STD-595.

3/ Wiring diagrams shall be as specified in the ordering data.

Revision letters are not used to denote changes due to the extensiveness of the changes.

Custodian:
Navy - SH
DLA - CC

Preparing activity:
DLA - CC

(Project 5930-1742-17)